



A.D. 1785 . . . . . N<sup>o</sup> 1477.

S P E C I F I C A T I O N

OF

JAMES PHILLIPS.

STOVE FOR COPPERS, FURNACES, MALT-  
HOUSES, &c.

L O N D O N :

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,  
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Price 6d.

1854.





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A.D. 1785 . . . . . N° 1477.

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Stove for Coppers, Furnaces, Malhouses, &c.

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PHILLIPS' SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JAMES PHILLIPS, of Mortlake, in the County of Surry, Ironmonger, send greeting.

WHEREAS His most Excellent Majesty King George the Third, did, by His Letters Patent, under the Great Seal of Great Britain, bearing date  
5 the Third day of May, in the twenty-fifth year of His reign, give and grant unto me, the said James Phillips, His especial licence, that I, the said James Phillips, during the term of years therein expressed, should and lawfully might use, exercise, and vend, within England, Wales, and Town of Berwick upon Tweed, my Invention of "A NEW KIND OF STOVE FOR COPPERS, FURNACES,  
10 MALTHOUSES, AND ALL OTHER PLACES AND MANUFACTORIES WHERE THAT SPECIES OF STOVES OR FIRE-PLACES COMMONLY CALLED COPPER-HOLES OR STOKE-HOLES ARE MADE USE OF, WHICH WILL NOT BE LIABLE TO BE OUT OF REPAIR, BUT IS INFINITELY MORE DURABLE THAN ANY NOW IN USE, AND HAS THE PECULIAR ADVANTAGE OF SAVING FUEL, TIME, AND LABOUR;" in which said Letters Patent there is con-  
15 tained a proviso obliging me, the said James Phillips, under my hand and seal, to cause a particular description of the nature of my said Invention, and how the same is to be performed, to be inrolled in His Majesty's High Court of Chancery within one calendar month after the date of the said recited Letters Patent, as in and by the same, relation being thereunto had,  
20 may more fully and at large appear.



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*Phillips' Improved Stove for Coppers, Furnaces, Malhouses, &c.*

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**NOW KNOW YE**, that in compliance of the said proviso, I, the said James Phillips, do hereby declare that my said Invention of a new kind of stove for coppers, furnaces, malhouses, &c. is described in the Plan thereof hereunto annexed.

In witness whereof, I, the said James Phillips, have hereunto set my 5  
hand and seal, this Thirtieth day of May, One thousand seven hundred  
and eighty-five.

JAMES PHILLIPS. (L.S.)

**AND BE IT REMEMBERED**, that on the Thirtieth day of May, in the  
year of our Lord 1785, the aforesaid James Phillips came before our said 10  
Lord the King in His Chancery, and acknowledged the Specification aforesaid,  
and all and everything therein contained and specified, in form above written.  
And also the Specification aforesaid was stamp'd according to the tenor of the  
Statutes made for that purpose.

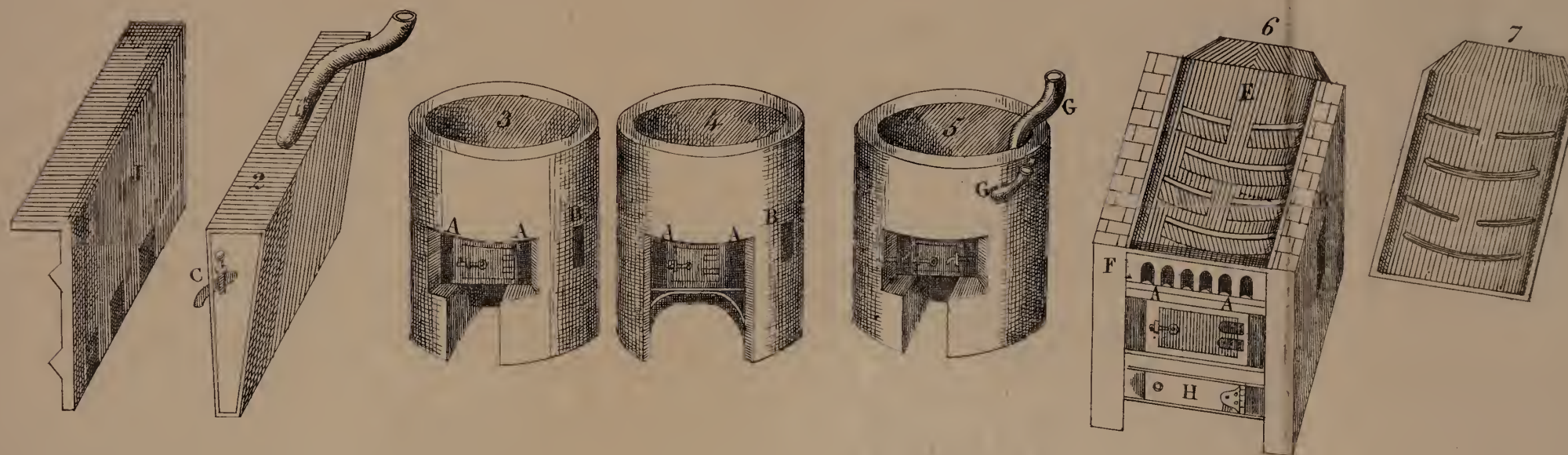
Inrolled the Second day of June, in the year of our Lord One thousand 15  
seven hundred and eighty-five.

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LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,  
Printers to the Queen's most Excellent Majesty. 1854.





*Explanation of Phillips's new invented Cast Iron and other metal cheeks or sides for all Grates, Stoves, Fire-places, of all Coppers, Malthouses, Hothouses and every sort of Stoke holes.—*

*1. Represents the cast iron cheek or side. — 3 the manner in which set, where no very large and intense fire is kept. — 4 the manner in which set where the contrary is the case. A avenues to admit a continual current of air to the cheek or side, to prevent its burning and drive the heat up to the Copper, Hereby it is that the Business is expedited; by causing the Copper to boil sooner and at considerable less expence of Coals than in the common way. B. discharging holes to carry off the air as fast as it enters at A. that the cheeks may be continually receiving fresh air. — 2 Represents a hollow copper or other metal cheek or side filled with water. C. a cock which being turned gives notice when the side needs a fresh supply of water. D. a tube descending near to the bottom of the side which conveys the steam out and water into the side when needed, it is also intended to work a pump or engine where required, on the Steam Engine principle. G. The manner of bringing the tube different ways out of the brick-work as particular cases may require. ( this sort it must be confessed must endure as long as the Copper to which it is applied, due care being taken to keep it regularly supplied with water. ) being on the same principle with it. 5 shews the manner in which it is set. 6. A hot-house stove on a new principle, to which the side or Cheek 1, is applied. E a Chamber over the stove fire into which through the holes at F in the front, fresh air is continually entering to be warmed and thence carried into the house, corroborating greatly to invigorate and keep healthy the plants, the erect circular pieces are checks to detain the air a sufficient time to give it due degree of heat before it enters the house. 7 The cover of the Chamber, the circular grooves in it are to receive the checks that the air may not go off but by the way intended. H a door to increase or decrease the draught of the Stove at pleasure.*



